CLAIMS

5   1.   An antibody that binds to epidermal growth factor receptor, that is characterized by the following functions:

Inhibits tyrosine phosphorylation of EGF-r;

Is internalized with EGF-r;

Inhibits the degradation of EGF-r; and

10   Inhibits the EGF induced degradation of EGF-r.

2.   An antibody that binds to epidermal growth factor receptor, that is characterized by the following functions:

Protects threonine phosporylation of EGF-r.

3.   An antibody that binds to epidermal growth factor receptor, that is

15   characterized by the following functions:

Protects threonine phosphorylation of a 63 KD protein.

4.   An antibody that binds to epidermal growth factor receptor, that is characterized by the following functions:

Inhibits VEGF production by tumor cells by greater than 50%; and

20   Inhibits VEGF production by endothelial cells by greater than 40%.

5.   The antibody of Claim 4, wherein the tumor cells are A431 cells.

6.   The antibody of Claim 4, wherein the tumor cells are ECV304 cells.

7.   An antibody that binds to epidermal growth factor receptor, that is characterized by the following functions:

25   Inhibits tyrosine phosphorylation of EGF-r;

Is internalized with EGF-r;

Inhibits the degradation of EGF-r;

Inhibits the EGF induced degradation of EGF-r;

Protects threonine phosporylation of EGF-r;

30   Protects threonine phosphorylation of a 63 KD protein;

Inhibits VEGF production by tumor cells by greater than 50%; and

Inhibits VEGF production by endothelial cells by greater than 40%.